“Poly wanna propylene tray!”

Polypropylene Dehydration Tray

Polypropylene dehydrations trays are part of the future! Affordable, easy to maintain, and shippable South Africa and India, polypropylene will provide the Kenyan people with the food dehydration that they need and deserve! Our design substantially fulfills the five domains of efficiency included in this project:

1. Appropriate technology
2. Available Materials
3. Affordable Cost
4. Ease of Maintenance
5. Safety

Any Questions or Comments? Contact Us!

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Solution Description

Dimensions:
Each tray will be 18” by 36” (Appropriate Technology)
Height: .75” (Appropriate Technology)

Geometry:
Parallel to the ground
Hole Sizes will be .282” by .274” in a checkered pattern (Appropriate Technology)

Materials/Physical Properties
Polypropylene plastic - à shipped from either India or South Africa (Available Materials)
Price is below our budget of $10 per tray (Affordable Cost)
Heat deflection temperature: 194 degrees Fahrenheit (Appropriate Technology--- Durability)
FDA certified (Safety)
Simple cleaning process. Wipe down with cloth or rag (Ease of Maintenance)

Environmental Conditions/Integration
Should be able to withstand temperatures regularly between 130 Fahrenheit and 155 Fahrenheit (Safety)
3 trays have to fit within one dryer unit (Available Materials)

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